

PATENT APPLICATION  
DOCKET NO.: 10010871-1

LISTING OF THE CLAIMS PER 37 C.F.R. §1.121

1. (Currently Amended) A method of modifying a source code portion associated with a computer program, comprising:

scanning said source code portion using a parser to recognize at least one select syntax structure therein, said parser having one or more predetermined code modification portions therein, each being operable to specify a corresponding variable instrumentation code portion; and

inserting [[an]] a variable instrumentation code portion into said source code portion at a location associated with a particular one of said at least one select syntax structure, said variable instrumentation code portion being specified responsive to a corresponding predetermined code modification portion provided in said parser.

PATENT APPLICATION  
DOCKET NO.: 10010871-1

2. (Previously Presented) The method of modifying a source code portion associated with a computer program as set forth in claim 1, wherein said parser comprises a recursive-descent parser, and further wherein said computer program is a program selected from the group consisting of an operating system kernel, an application program and a software utility program.

3. (Previously Presented) The method of modifying a source code portion associated with a computer program as set forth in claim 2, further comprising pre-processing said source code portion.

4. (Previously Presented) The method of modifying a source code portion associated with a computer program as set forth in claim 3, wherein said pre-processing is operable to remove macro code portions from said source code portion.

PATENT APPLICATION  
DOCKET NO.: 10010871-1

5. (Original) The method of modifying a source code portion associated with a computer program as set forth in claim 2, wherein said operating system kernel comprises HP-UX Operating System kernel.

6. (Currently Amended) The method of modifying a source code portion associated with a computer program as set forth in claim 2, wherein said variable instrumentation code portion is operable to count accesses to a particular global variable of said computer program.

7. (Currently Amended) The method of modifying a source code portion associated with a computer program as set forth in claim 2, wherein said variable instrumentation code portion is operable to count accesses to a particular function subroutine of said computer program.

PATENT APPLICATION  
DOCKET NO.: 10010871-1

8. (Currently Amended) The method of modifying a source code portion associated with a computer program as set forth in claim 2, wherein said variable instrumentation code portion is operable to count accesses to a particular global variable from a select module of said computer program.

9. (Currently Amended) The method of modifying a source code portion associated with a computer program as set forth in claim 2, wherein said variable instrumentation code portion is operable to monitor frequency of function calls from a plurality of select locations in said computer program.

PATENT APPLICATION  
DOCKET NO.: 10010871-1

10. (Currently Amended) The method of modifying a source code portion associated with a computer program as set forth in claim 2, wherein said variable instrumentation code portion is operable to monitor frequency of use of a plurality of code paths in said computer program.

11. (Original) The method of modifying a source code portion associated with a computer program as set forth in claim 2, wherein said operating system kernel is operable with a multiprocessor computer system.

PATENT APPLICATION  
DOCKET NO.: 10010871-1

12. (Currently Amended) A system for modifying a source code portion associated with a computer program, comprising:

parser means for scanning said source code portion to recognize at least one select syntax structure therein, said parser means including one or more predetermined code modification portions therein, each being operable to specify a corresponding variable instrumentation code portion; and

means for automatically and selectively inserting [[an]] a variable instrumentation code portion into said source code portion at a location associated with a particular one of said select syntax structure, said variable instrumentation code portion being specified responsive to a corresponding predetermined code modification portion provided in said parser means.

PATENT APPLICATION  
DOCKET NO.: 10010871-1

13. (Previously Presented) The system for modifying a source code portion associated with a computer program as set forth in claim 12, wherein said parser means comprises a recursive-descent parser, and further wherein said computer program is a program selected from the group consisting of an operating system kernel, an application program and a software utility program.

14. (Original) The system for modifying a source code portion associated with a computer program as set forth in claim 13, further comprising a pre-processor for removing macro code portions associated with said source code portion.

15. (Currently Amended) The system for modifying a source code portion associated with a computer program as set forth in claim 13, wherein said variable instrumentation code portion is operable to count accesses to a particular global variable of said computer program.

PATENT APPLICATION  
DOCKET NO.: 10010871-1

16. (Currently Amended) The system for modifying a source code portion associated with a computer program as set forth in claim 13, wherein said variable instrumentation code portion is operable to count accesses to a particular function subroutine of said computer program.

17. (Currently Amended) The system for modifying a source code portion associated with a computer program as set forth in claim 13, wherein said variable instrumentation code portion is operable to count accesses to a particular global variable from a select module of said computer program.

18. (Currently Amended) The system for modifying a source code portion associated with a computer program as set forth in claim 13, wherein said variable instrumentation code portion is operable to monitor frequency of function calls from a plurality of select locations in said computer program.



PATENT APPLICATION  
DOCKET NO.: 10010871-1

19. (Currently Amended) The system for modifying a source code portion associated with a computer program as set forth in claim 13, wherein said variable instrumentation code portion is operable to monitor frequency of use of a plurality of code paths in said computer program.

20. (Original) The system for modifying a source code portion associated with a computer program as set forth in claim 13, wherein said operating system kernel is operable with a multiprocessor computer system.

PATENT APPLICATION  
DOCKET NO.: 10010871-1

21. (Currently Amended) A computer-readable medium operable with a processing environment, said computer-readable medium carrying a sequence of instructions which, when executed in said processing environment, causes said processing environment to perform:

scanning a source code portion of a computer program using a parser to recognize at least one select syntax structure therein, said parser having one or more predetermined code modification portions therein, each being operable to specify a corresponding variable instrumentation code portion; and

inserting [[an]] a variable instrumentation code portion into said source code portion at a location associated with a particular one of said at least one select syntax structure, said variable instrumentation code portion being specified responsive to a corresponding predetermined code modification portion provided in said parser.

PATENT APPLICATION  
DOCKET NO.: 10010871-1

22. (Previously Presented) The computer-readable medium operable with a processing environment as set forth in claim 21, wherein said parser comprises a recursive-descent parser, and further wherein said computer program is a program selected from the group consisting of an operating system kernel, an application program and a software utility program.

23. (Currently Amended) The computer-readable medium operable with a processing environment as set forth in claim 22, wherein said variable instrumentation code portion is operable to monitor frequency of use of a plurality of code paths in said computer program.

24. (Original) The computer-readable medium operable with a processing environment as set forth in claim 22, wherein said operating system kernel is operable with a multiprocessor computer system.

PATENT APPLICATION  
DOCKET NO.: 10010871-1

25. (Currently Amended) The computer-readable medium operable with a processing environment as set forth in claim 22, wherein said variable instrumentation code portion is operable to count accesses to a particular global variable of said computer program.

26. (Currently Amended) The computer-readable medium operable with a processing environment as set forth in claim 22, wherein said variable instrumentation code portion is operable to count accesses to a particular function subroutine of said computer program.

27. (Currently Amended) The computer-readable medium operable with a processing environment as set forth in claim 22, wherein said variable instrumentation code portion is operable to count accesses to a particular global variable from a select module of said computer program.

PATENT APPLICATION  
DOCKET NO.: 10010871-1

28. (Currently Amended) The computer-readable medium operable with a processing environment as set forth in claim 22, wherein said variable instrumentation code portion is operable to monitor frequency of function calls from a plurality of select locations in said computer program.